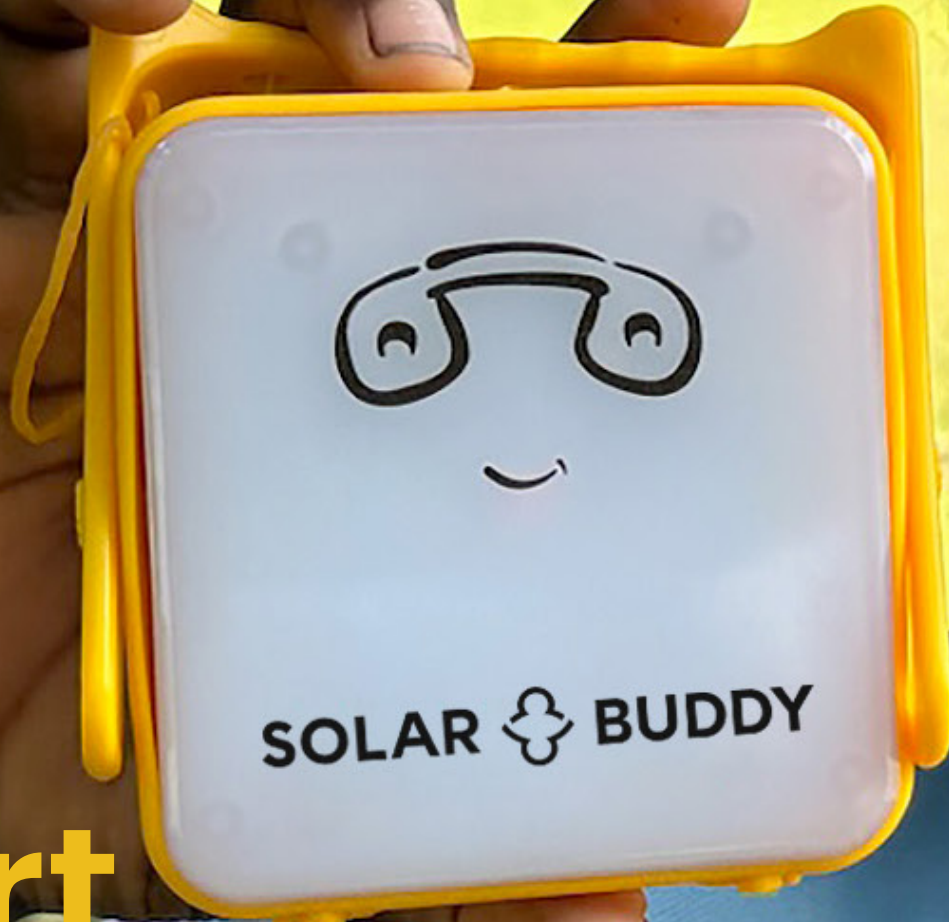


Impact Report

To December 2024

Papua New Guinea



Seeds of Impact

PAPUA NEW GUINEA

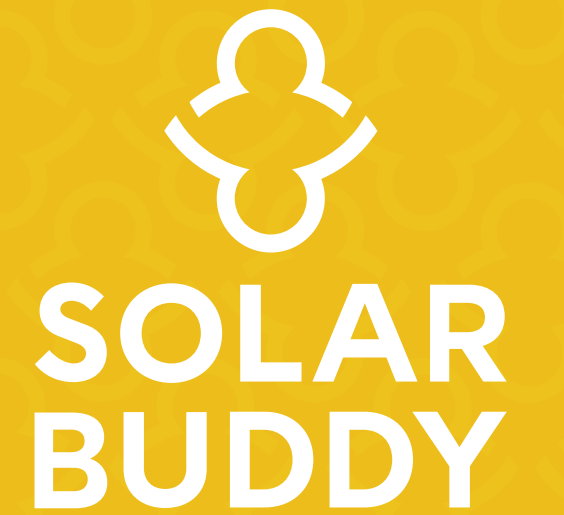
Imagine a world where nightfall doesn't mean darkness, where every child can study, every family can feel safe, and every community has the power to thrive.

Yet, for millions, energy poverty remains a daily struggle—limiting opportunity, safety, and hope.

By standing with us, you are not just providing light; you are igniting dreams, unlocking potential, and changing lives in Papua New Guinea.

Together, we are illuminating the path to a brighter, fairer future.

Join us in uncovering the stories driving this impact in 2024



**WE WILL NEVER
STOP CREATING
NEW WAYS TO
FIGHT ENERGY
POVERTY.**

SolarBuddy is an impact organisation uniting a global community to illuminate the futures of all children.



We maximise impact by working towards achieving two goals:

- **GIFTING** solar solutions to millions of children living in energy poverty
- **EDUCATING** and inspiring others to become agents of change to end energy poverty

“Energy poverty condemns billions in the developing world to darkness, ill health, unfulfilled futures and repeated cycles of poverty.”
– *UN Foundation*

JUNIORBUDDY impact in **Papua New Guinea** up to December 2024

(Impact calculated over ten years)

DEVICES DISTRIBUTED

71,241

LIVES IMPACTED

356,245

EXTRA STUDY HOURS CREATED AFTER DARK

520,059,300

EQUIVALENT SEEDLINGS PLANTED OVER TEN YEARS

1,517,433

TONNES OF CO2 EMISSIONS REDUCED

91,188



STUDENTBUDDY impact in Papua New Guinea up to December 2024

(Impact calculated over fifteen years)

DEVICES DISTRIBUTED

676

LIVES IMPACTED

116,272

EDUCATION & DIGITAL ACCESS

29,608,800 EXTRA STUDY HOURS & VITAL DIGITAL ACCESS

NUMBER OF CHARGES FOR ESSENTIAL USB DEVICES

81,424,200

TONNES OF CO2 EMISSIONS REDUCED

5,563 That's a reduction in emissions saved equal to 10,140 standard short-haul journeys from LA to NY





Measurable Impact

\$7.34

Social impact value for every \$1 invested*

**Social Return on Investment (SROI)*

That means for every \$10,000 of support, you are creating \$73,400 of social impact.

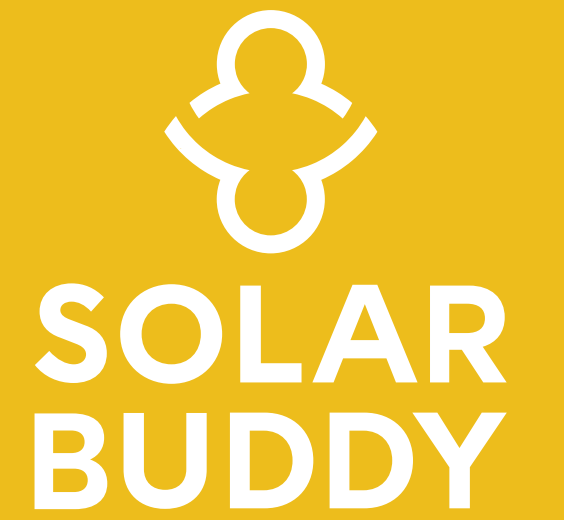
“Measuring impact is key to effectively tackling energy poverty and understanding what more we can do as a global community to illuminate lives.” – *Simon Doble*

With an increasing range of solutions, we aim to undertake further assessments to ensure our transformational impact is fully comprehended.

SUSTAINABLE DEVELOPMENT GOALS

SUSTAINABLE IMPACT GLOBALLY

“ Energy is the **golden thread** that connects economic growth, increased social equity, and an environment that allows the world to thrive. Development is not possible without energy, and sustainable development is not possible without sustainable energy.



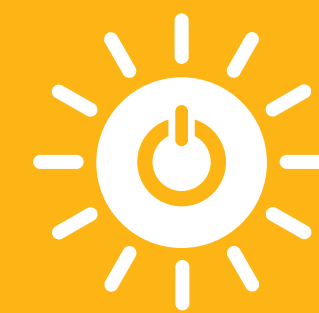
SDG

Ensure access to affordable, reliable, sustainable and modern energy for all.



To learn more about our ongoing commitment to advancing the United Nations Sustainable Development Goals (SDGs) click [here](#).

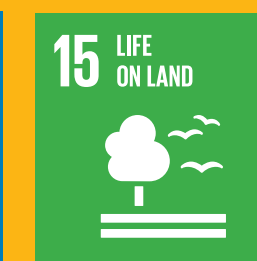
7 AFFORDABLE AND CLEAN ENERGY



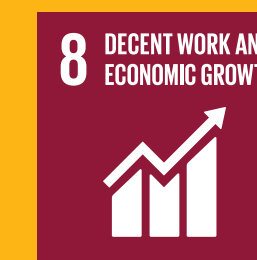
PEOPLE

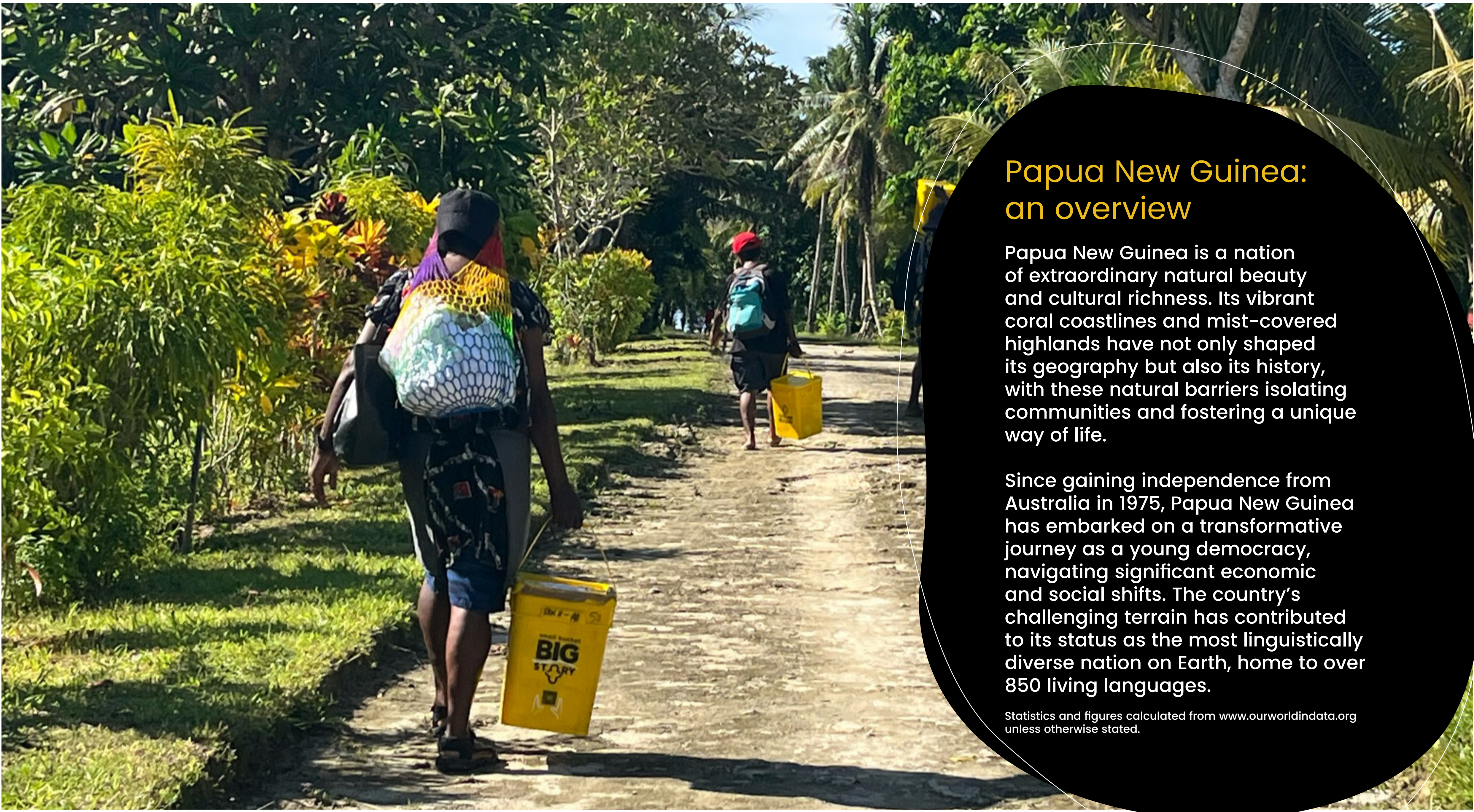


PLANET



PROSPERITY





Papua New Guinea: an overview

Papua New Guinea is a nation of extraordinary natural beauty and cultural richness. Its vibrant coral coastlines and mist-covered highlands have not only shaped its geography but also its history, with these natural barriers isolating communities and fostering a unique way of life.

Since gaining independence from Australia in 1975, Papua New Guinea has embarked on a transformative journey as a young democracy, navigating significant economic and social shifts. The country's challenging terrain has contributed to its status as the most linguistically diverse nation on Earth, home to over 850 living languages.

Statistics and figures calculated from www.ourworldindata.org unless otherwise stated.

Why we work in Papua New Guinea

With over 80% of PNG's population living in rural areas lacking reliable electricity, SolarBuddy provides critical solutions by delivering solar-powered devices to communities.

The country's tropical climate offers abundant sunlight year-round, making solar energy a sustainable and efficient choice. These lights enable children to study after dark, replacing hazardous and costly kerosene lamps, which are common in rural households. This improves educational outcomes by creating safe and conducive learning environments.

Additionally, SolarBuddy reduces exposure to harmful indoor air pollution from kerosene, addressing significant health concerns like respiratory illnesses. By eliminating the recurring costs of kerosene or batteries, SolarBuddy also eases financial burdens on low-income families.

Statistics and figures calculated from www.ourworldindata.org unless otherwise stated.



Papua New Guinea: the impact of energy poverty

ADULTS WITH NO FORMAL EDUCATION

34.8%

of adults have no formal education, **41.4%** for women (2020)

EDUCATION

13%

of people have completed upper secondary education and 59% have completed primary education (2020)

AIR POLLUTION

99.9%

of the population are exposed to air pollution levels above the World Health Organisation (WHO) guidelines (2021)

DEATHS PER YEAR FROM INDOOR AIR POLLUTION

11,169

11,169 deaths per year are attributed to indoor air pollution compared to 2,250 deaths caused by malaria (2019)





**WE ACHIEVE IMPACT BY BUILDING
COMMUNITIES OF CHANGE. OUR LOCAL
PARTNERS ARE A KEY TO THIS STORY.**



Students at Kaparoko Primary School, Central Province receiving their JuniorBuddy lights and letters.

HOW WE CREATE **IMPACT**

We partner with multiple in-country distribution partners to maximise our impact. Since beginning our work in Papua New Guinea in 2018 we have gifted our devices in 14 of Papua New Guinea's 22 provinces.

In 2024, together with our partners, we distributed 11,226 solar solutions.

Our Partners in 2024

Wantaim PNG - Thanks to their team and many hours spent travelling between the remote islands of Manus, three quarters of the province's health centres and school aged children have now received a solar device.

PNG Gulf Association - In our 3rd year partnering with PNGGA, lights were transported by barge to communities, inaccessible by road, in the Gulf province.

East New Britain Association - In August, for the first time, our lights arrived in Rabaul, East New Britain and were gifted to students at Tamanairik School.

Project Yumi - This year saw our partner reach isolated health centres in Morobe with our StudentBuddy devices and rechargeable head torches, which have already proven invaluable when providing medical assistance to the community.

Conflict Islands Conservation Initiative - The rangers from the Conflict Islands took advantage of the calm seas during the dry season to deliver lights to eight island communities in Milne Bay.

Laikim PNG - Two flights and a 2.5 hour ride in a banana boat saw our lights reach students on the remote island of Tunnung in New Ireland.



“The good thing about this light is that each student has one to him/herself. Us Mamas who do the many housework need lamps and many times when we get the lamp to prepare market stuff, the children miss out on homework and studies”

Sarah Pokiou, Village Elder, Buliso, Manus Province



Illuminating lives together



UNITING A GLOBAL COMMUNITY

This year has been transformative. We distributed over 50,000 solar solutions, reaching 300,000 people affected by energy poverty, creating millions of study hours, and forging new partnerships.

I'm incredibly proud of the SolarBuddy team and our partners for this record-breaking impact.

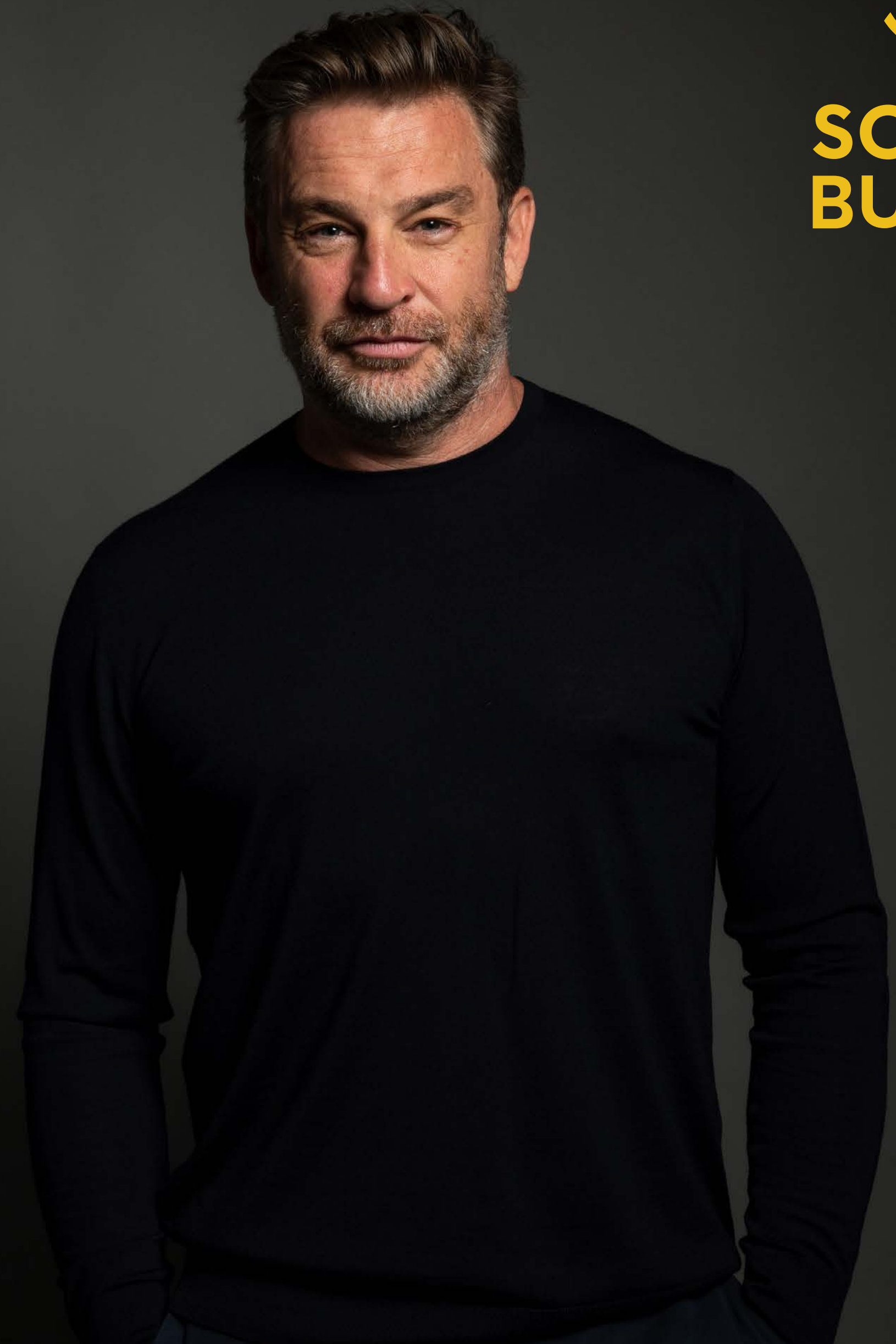
Your support has illuminated the lives of families in Papua New Guinea, and their stories fill me with gratitude. However, there's still much to be done. Nearly 10% of the global population remains trapped in poverty, lacking access to energy, education, healthcare, and a sustainable future.

Our efforts are making a real difference, but we must not slow down. Rising inequality and the climate crisis threaten to reverse our progress. That's why we're doubling down on partnerships, expanding our scope, and focusing on sustainability.

Thank you for standing with us—let's keep moving forward.

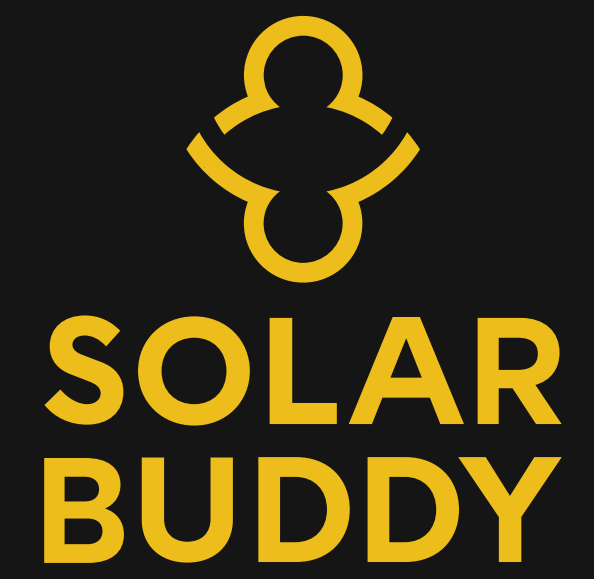


Simon Doble
Founder and Chair, SolarBuddy



THANK YOU!





www.solarbuddy.org

hello@solarbuddy.org